

Application No.: 10/033,026

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Docket No.: 60607DIV (50553)

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-4. (cancelled)

5. (currently amended) An isolated human N-type calcium channel $\alpha_{1B} + \text{SFVG}$ subunit nucleic acid molecule which encodes a human N-type calcium channel $\alpha_{1B} + \text{SFVG}$ subunit polypeptide comprising SEQ ID NO:4 ~~which comprises SEQ ID NO:2 in an extracellular domain.~~

6. (cancelled)

7. (currently amended) ~~The~~ An isolated human N-type calcium channel $\alpha_{1B} + \text{SFVG}$ subunit nucleic acid molecule ~~of claim 5, wherein the human N-type calcium channel $\alpha_{1B} + \text{SFVG}$ subunit nucleic acid molecule comprises~~ comprising the nucleotide sequence of SEQ ID NO:3.

8. (currently amended) ~~The~~ An isolated human N-type calcium channel $\alpha_{1B} + \text{SFVG}$ subunit nucleic acid molecule ~~of claim 5, wherein the human N-type calcium channel $\alpha_{1B} + \text{SFVG}$ subunit nucleic acid molecule consists~~ consisting of the nucleotide sequence of SEQ ID NO:3.

9. (cancelled)

10. (currently amended) An isolated fragment of the human N-type calcium channel $\alpha_{1B} + \text{SFVG}$ subunit nucleic acid molecule of claim 5, wherein the fragment comprises SEQ ID NO:1.

11. (previously presented) An expression vector comprising the isolated human N-type calcium channel $\alpha_{1B} + \text{SFVG}$ subunit nucleic acid molecule of claim 5 operably linked to a promoter.

12. (previously presented) An expression vector comprising the isolated human N-type calcium channel $\alpha_{1B} + \text{SFVG}$ subunit nucleic acid molecule of claim 10 operably linked to a promoter.

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13. (original) A host cell transformed or transfected with the expression vector of claim 11.

14-35. (canceled)